



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,776	09/29/2003	Nayel Saleh	6065-88618	2480
24628	7590	01/28/2009	EXAMINER	
Husch Blackwell Sanders, LLP Husch Blackwell Sanders LLP Welsh & Katz 120 S RIVERSIDE PLAZA 22ND FLOOR CHICAGO, IL 60606			ELAHEE, MD S	
			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			01/28/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/673,776	SALEH ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	MD S. ELAHEE	2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 09 October 2008.

2a) This action is **FINAL**.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____ .

## **DETAILED ACTION**

### ***Response to Amendment***

1. This action is responsive to an amendment filed on 10/09/2008. Claims 1-20 are pending.

### ***Response to Arguments***

2. The arguments filed in the 10/09/2008 Remarks have been fully considered but they are not persuasive.

Regarding claims 1-6, 8-18 and 20, the Applicant argues on page 7-9 that the combination of Ramey et al. and Kaplan fail to provide any teaching or suggestion of converting to text or packetizing, no searching of the message in post-processing to find key words. Examiner respectfully disagrees with this argument. In col.4, lines 59-64, col.5, lines 15-22, 53-64, Ramey teaches converting the voice contact information to contact data in digitized, packetized form and in col.5, lines 53-64, Ramey further teaches searching telephone number in database. Ramey further teaches displaying originating message caller ID name on the display device 118 in fig.1 (see fig.2; col.6, lines 41-45). It clearly means that the displayed information on the display device 118 is **text** which is must be converted from the voice contact information and there is also searching of the message in post-processing to find key words.

Thus the rejection of the claims in view of Ramey and Kaplan remain.

The rejection of the claims in view of Ramey and Baker remain for the same reasons as discussed above with respect to the rejection of the claims in view of Ramey and Kaplan.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-6, 8-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ramey** et al. (U.S. 6,298,128) in view of **Kaplan** (U.S. 6,396,906).

Regarding claims 1 and 13, **Ramey** teaches a method of contact manipulation and retrieval in an automatic call distribution system (col.1, lines 58-60), comprising the steps of:

receiving a voice contact having voice contact information (col.4, lines 59-64, col.5, lines 15-22, 53-56);

converting the voice contact information to contact data in digitized, packetized form and to text form thereby forming voice information based text contact data (fig.2; col.4, lines 59-64, col.5, lines 15-22, 53-64, col.6, lines 41-45);

storing the voice information based text contact data in a data repository of voice information based text contact data of past voice contacts for use in post-processing research (col.4, lines 62-64, col.5, lines 15-22);

receiving a key word search term from a searcher conducting a post-contact search subsequent to the voice contacts for post-processing searching of the voice information based text contact data (col.5, lines 53-64);

searching the data repository of past voice contacts at a time after the voice contact based upon the search term (fig.3; col.5, lines 53-64);

wherein the data repository of past voice contacts text data is key word searched for at least one voice item of information using the received search term (col.5, lines 53-64).

However, **Ramey** does not teach converting the voice information to text using speech recognition. It is obvious that **Ramey** suggests the limitation. This is because **Ramey** teaches

converting the voice contact information using combination of codec and DSP (col.4, lines 59-64, col.5, lines 15-22, 53-64). **Kaplan** teaches converting the voice information into text using speech recognition (col.2, lines 15-22, 41-44, col.3, lines 39-42). Having the cited analogous art at the time the invention was made, it would have been obvious to one of ordinary skill in the art to add speech recognition to **Ramey**'s invention for converting the voice information as taught by **Kaplan**'s invention in order to provide users with more accurate digitized data of the actual voice data.

Regarding claims 2, 10 and 14, **Ramey** teaches that the message is a voice message, and wherein the voice message is inherently packetized to thereby convert contact information in the voice message to contact data (abstract; fig.2, 4; col.4, lines 59-64).

Regarding claims 3, 11 and 15, **Ramey** teaches that the message is a voice message, and wherein the voice message is converted to digitized [i.e., text] as the contact data (col.4, lines 59-64).

Regarding claims 4, 12 and 16, **Ramey** teaches that the message is a voice message, and wherein the voice message is packetized, and wherein the packetized voice message is converted to text as the contact data (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

Regarding claims 5 and 17, **Ramey** teaches that the system has at least one agent, and wherein the method further comprises providing at least one plug-in that implements conversion

and storing of contact data in the automatic call distribution system (abstract; fig.2, 4; col.1, lines 58-60, col.4, lines 59-64, col.7, line 64- col.8, line 15). (Note; agents are software routines and algorithms)

assigning inherently the at least one plug-in to the agent (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

activating the at least one plug-in for the agent when a message having contact information is received at the automatic call distribution system (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

Regarding claims 6 and 18, **Ramey** teaches that the automatic call distribution system has a plurality of agents and a plurality of plug-ins, and wherein the method further comprises determining inherently for a respective agent of the plurality of agents the at least one plug-in, which is assigned to the respective agent (abstract; fig.2, 4; col.4, lines 59-64, col.5, lines 15-22, 53-64, col.7, line 64- col.8, line 15). (Note; agents are software routines and algorithms)

Claim 8 is rejected for the same reasons as discussed above with respect to claim 1. Furthermore, **Ramey** teaches that messages are converted to text stored in a central repository for use in post-processing and search for key word matches (col.4, lines 59-64, col.5, lines 15-22, 53-64).

Claim 9 is rejected for the same reasons as discussed above with respect to claims 1, 5 and 6. Furthermore, **Ramey** teaches a plurality of format conversion plug-ins (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

Regarding claim 20, **Ramey** does not specifically teach “the communication system is an automatic call distribution system”. **Kaplan** teaches that the communication system is an automatic call distribution system (fig.1; item 112). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify **Ramey** to incorporate the communication system being an automatic call distribution system as taught by **Kaplan**. The motivation for the modification is to have doing so in order to connect a caller to one of a plurality of agents in order to meet caller’s need.

7. Claims 7 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ramey** et al. in view of **Kaplan** further in view of **Holmes, JR.** (U.S. Pub. No. 2002/0138296).

Regarding claims 7 and 19, **Ramey** teaches activating the plug-in for the agent (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15). However, **Ramey** in view of **Kaplan** does not specifically teach “the agent logs onto the automatic call distribution system”. **Holmes** teaches that the agent logs onto the automatic call distribution system (page 6, paragraph 0075). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify **Ramey** in view of **Kaplan** to allow the agent logging onto the automatic call distribution system as taught by **Holmes**. The motivation for the modification is to provide status of agent.

8. Claims 1-6 and 8-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ramey** et al. (U.S. 6,298,128) in view of **Baker** (U.S. 6,327,478).

Regarding claims 1 and 13, **Ramey** teaches a method of contact manipulation and retrieval in an automatic call distribution system (col.1, lines 58-60), comprising the steps of:

receiving a voice contact having voice contact information (col.4, lines 59-64, col.5, lines 15-22, 53-56);

converting the voice contact information to contact data in digitized, packetized form and to text form thereby forming voice information based text contact data (col.4, lines 59-64, col.5, lines 15-22, 53-64);

storing the voice information based text contact data in a data repository of voice information based text contact data of past voice contacts for use in post-processing research (col.4, lines 62-64, col.5, lines 15-22);

receiving a key word search term from a searcher conducting a post-contact search subsequent to the voice contacts for post-processing searching of the voice information based text contact data (col.5, lines 53-64);

searching the data repository of past voice contacts at a time after the voice contact based upon the search term (fig.3; col.5, lines 53-64);

wherein the data repository of past voice contacts text data is key word searched for at least one voice item of information using the received search term (col.5, lines 53-64).

However, **Ramey** does not teach converting the voice information to text using speech recognition. It is obvious that **Ramey** suggests the limitation. This is because **Ramey** teaches converting the voice contact information using combination of codec and DSP (col.4, lines 59-64, col.5, lines 15-22, 53-64). **Baker** teaches converting the voice information into text using speech recognition (col.2, lines 54-67, col.3, lines 50-62). Having the cited analogous art at the time the invention was made, it would have been obvious to one of ordinary skill in the art to add speech recognition to **Ramey's** invention for converting the voice information as taught by **Baker's** invention in order to provide users with more accurate text data of the actual voice data.

Regarding claims 2, 10 and 14, **Ramey** teaches that the message is a voice message, and wherein the voice message is inherently packetized to thereby convert contact information in the voice message to contact data (abstract; fig.2, 4; col.4, lines 59-64).

Regarding claims 3, 11 and 15, **Ramey** teaches that the message is a voice message, and wherein the voice message is converted to digitized [i.e., text] as the contact data (col.4, lines 59-64).

Regarding claims 4, 12 and 16, **Ramey** teaches that the message is a voice message, and wherein the voice message is packetized, and wherein the packetized voice message is converted to text as the contact data (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

Regarding claims 5 and 17, **Ramey** teaches that the system has at least one agent, and wherein the method further comprises providing at least one plug-in that implements conversion and storing of contact data in the automatic call distribution system (abstract; fig.2, 4; col.1, lines 58-60, col.4, lines 59-64, col.7, line 64- col.8, line 15). (Note; agents are software routines and algorithms)

assigning inherently the at least one plug-in to the agent (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

activating the at least one plug-in for the agent when a message having contact information is received at the automatic call distribution system (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

Regarding claims 6 and 18, **Ramey** teaches that the automatic call distribution system has a plurality of agents and a plurality of plug-ins, and wherein the method further comprises determining inherently for a respective agent of the plurality of agents the at least one plug-in, which is assigned to the respective agent (abstract; fig.2, 4; col.4, lines 59-64, col.5, lines 15-22, 53-64, col.7, line 64- col.8, line 15). (Note; agents are software routines and algorithms)

Claim 8 is rejected for the same reasons as discussed above with respect to claim 1. Furthermore, **Ramey** teaches that messages are converted to text stored in a central repository for use in post-processing and search for key word matches (col.4, lines 59-64, col.5, lines 15-22, 53-64).

Claim 9 is rejected for the same reasons as discussed above with respect to claims 1, 5 and 6. Furthermore, **Ramey** teaches a plurality of format conversion plug-ins (abstract; fig.2, 4; col.4, lines 59-64, col.7, line 64- col.8, line 15).

***Conclusion***

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MD S. ELAHEE whose telephone number is (571)272-7536. The examiner can normally be reached on Mon to Fri from 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MD S ELAHEE/  
MD SHAFIUL ALAM ELAHEE  
Primary Examiner  
Art Unit 2614  
January 28, 2009